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contents

september 1997

DEBTS

- 7 Calgary hotel caters to cyber-junkies
- 11 Briefs
- 12 Camouflage posters on museum content
- 14 High-tech beams and knots sink through Ottawa region
- 16 Exclusion music raps tags celebs off AOL
- 16 PC fingerprint-ID system arrives
- 16 Local ISP responds to spam attack
- 18 Computers 1, Humanity 0

features

- 14 Reimagining computer ads
- 15 Hackers feel weather challenge
- 34 Steeping cyber-culture
- 35 Hanging around God's office: MIT's Media Lab
- 46 Wendy Masley notes technology's undercurrents
- 67 Past and future come alive
- 84 Public waits while BSE gets its ducks in a row
- 89 Lessons-learned ISPs: Rites from the inside
- 94 Geek origins

software

- 47 *Plant the Seeds* in his garden too
- 48 Desktop video editing
- 50 Personal finance software for Windows 95
- 54 BTRC—who needs it?
- 54 Apple's new OS: Close but no shoggy
- 58 Shave and a beard alike
- 58 Just the fax, ma'am
- 62 PC utilities roundup

hardware

- 48 New Piles: tip higher
- 48 Throw away your postcards!
- 72 Impress your friends with Catal digital PCI

multimedia

- 80 Healthy CD-ROMs—the cure for what ails you?

profile

- 43 Greg Wallis: The star of 15100
- 70 It pays to be cynical, says Ken Spack

games

- 117 Backstage photos on the Web
- 117 Double in an arcade-style phaser
- 118 Explore your dark side with *Angels & Demons*
- 118 Canadian trivia game fun for the whole family
- 118 Games people play

books

- 84 Standing out from the rest crowd
- 87 An annotated book
- 88 Cyberpunk
- 92 OS/2 aims are formidable
- 93 Head to the online world
- 93 8 cyber laws for Win95 owners

columns

- 8 Net News: Is the Web War over?
- 10 Scott Coleman: Change my approach, not my tools
- 12 Performance & slow link is better than no link
- 104 Power Learning: Remove singular hypothesis
- 105 OS/2 Ready: Pondering the future of OS/2
- 106 Industry Insider: Microsoft never indigestible system
- 109 *id!* Computer troubleshooting for beginners
- 109 *id!* Handling Windows 95 glitches

online

- 112 *Streaming*: The way to Net profile?
- 115 Are forecasts in limbo?
- 115 *Compulsions: Personal History*
- 116 New Webpage: Found new readable
- 116 *Small sites*

reader services

- 6 Letters
- 77 Calendar
- 89 Too Much To
- 100 Tracing
- 119 Classifieds
- 119 WWW Listing
- 119 Advertisers Index

D-LINK

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—engineers needed a

faster network

Q: Why were your engineers complaining about your network?
DP: Basically because it was too slow. We have hundreds of memory-auditing drawings filed at our servers. Our engineers are here. They don't want to wait when they have to take out a drawing. The demands on our network are enormous now, and it's growing by two hundred percent in the last year or so.

Q: And are there any complaints now?
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Q: What brought you to D-Link as the first place?
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**MORE
 TIPS**
 from the Editor



Migrating for speed?
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First Ethernet is the obvious solution for those who "can't wait" and it's a lot simpler than you might have thought.

- You may not need more wiring. D-Link's Fast Ethernet products operate on standard Category 5 cables. This means that if you have 10Base-T or 100Base-TX you probably don't need new wiring to support a D-Link Fast Ethernet.
- You won't need expensive equipment. All your existing network applications and LAN protocols will continue to operate when you make the transition to Fast Ethernet.
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100Base-TX network



1993-1994 (1994)

The authors' 2007 story "High-tech job applicants lack specific know-how" stated that a study was undertaken by Magnus Collins. The research was performed solely by Magnus as part of his Master's thesis.

For more information, contact the publisher at (815) 337-4221 (ext. 3243), by fax at (815) 732-7444, or by e-mail at info@mcgraw-hill.com.
The web site is www.mh.com.

There are many other factors besides RAM and CPU that can affect the speed with which a computer opens a program. For example, the type, size, speed, and state of fragmentation of the hard drive will all play a part, as will the cache. The point is, the article says not "use just" but "use much less!" If you're satisfied with the speed of your computer, that's all the reason Copy-Bit.

your desktop programs are gone.
 the terrible
 [name withheld by request] ☹

Is the Holy War over?



In a startling about-face, Apple director and co-founder Steve Jobs and Microsoft Corp. chairman and CEO Bill Gates have announced a broad product and technology development agreement between the two companies. In effect, the agreement is a technology truce of sorts. The Mac community was immediately polarized into two camps: the deal was either a complete sell-out of Apple's values or the most savvy business deal of the decade.

To many in the Mac community the agreement represents a logical solution to the recent problems of both Apple and its customers. To others, however, the agreement represents the worst possible conclusion after many years of analysis and speculation.

To review Apple and Microsoft have been authorized vendors for over a decade with Apple accusing Microsoft of copying its software to make Apple's "look and feel." Microsoft has clearly made major gains in almost every Apple stronghold, reducing Apple's management to a husk of generalized school life coping over what's going on in that old hat.

The real issue in this fight, however, has been Apple's legal maneuvering, when faced a daily dilemma: fight alongside Apple (and put itself into the line of Microsoft's Biggie Marketing Machine) or watch as Microsoft (and hence they are abandoning the only company that can make the only thing they do).

What does Apple get?

First, it gives Microsoft's training an important tool for Apple's continued education. Considering Microsoft's success with the

past decade, the Montreal Wanderers-based software giant is the only game in town. Coupled with its 2000 star, scoring prowess, and aggressive business practices, Microsoft is the proverbial 500-pound gorilla that can do just about anything it wants.

Apple also owns USD450 million from Microsoft's purchase of Apple's nonvoting shares. Apple and Microsoft both have more than this amount of cash in the bank, but if you're an Apple shareholder, you'll realize that it is probably better to have \$150 million of Apple's funds rather than in Microsoft's.

Family Microsoft has agreed to port its Office 98 software suite over to the Mac platform. With the announcement of the Mac port of Microsoft Office Apple gains responsibility in the computer world, where the lack of particular cross-platform software applications was often said to be Mac's flaw.

What does Microsoft get?

The agreement paves the way for a long-term cross-licensing arrangement in which the two companies will work more closely on their projects. This means that Apple, since we're all well, may be copying legal battles with Microsoft. It also means that Apple will share many of its technological advances with Microsoft. Of course, like *Tron*, we might suggest Apple has already been sharing its secrets with Microsoft for some—without payment.

Further, by making the deal Microsoft announced, the world that Apple will survive.

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High-tech booms and busts echo through Ottawa region

• By CHRISTOPHER GUY •

Remember Ottawa's high-tech euphoria in the late 1980s, when the city was hailed as the "Silicon Valley of the North?"

Now another door opens.

Unfortunately the popular slogan offered little consolation to the 180 employees of Highgate-based Genetec Technologies Inc., who recently lost their jobs when the company shut its doors after 21 years in business.

In last June, Genetec's founders, Glenview Co., sold their own development at the building that housed Genetec's headquarters and manufacturing facilities, after Genetec refused to pay thousands of dollars worth of rent. Within a day Genetec received a court

order allowing company employees access to their office and Genetec owners to pay \$5,000 in legal costs.

For Genetec, though, it was a painful history. A month later the company once considered a world leader in motion video, filed for court protection from its creditors under the Companies Creditors Arrangement Act.

Genetec owes about US\$10.5 million in its creditors.

Research-Chase applied Research Lab, of Mississauga, tried to take over the high-growth company, but Genetec's buyers, creditor Silver Bay, which is trying to recover \$18.15 million from Genetec, blocked the deal. Instead, the bank gave Genetec permission to liquidate its assets and technology.

Research Chase's proposal would have seen 180 staff. Genetec workers receive some severance pay from past employers. Meanwhile, said the end of Genetec, the remaining 145 employees will be hired by Silver Bay. Genetec's assets if they raise more than US\$11.5 million, the now-defunct unemployed workers will share 16 per cent of the total beyond that threshold.

Open door policy?

But all may not be lost for the Genetec team. Knowledge Networks Corp. is nearby. Knetix plans to take in many of Genetec's new employees by 2001.

The global giant in ATM digital switches, which is used to transmit images, data, and other messages across telephone and fibre-optic lines already has a workforce complement of 2,800 employees in the Ottawa area (7,600 globally).

Knowledge's plans follow on the heels of a similar hiring spree recently announced by Research Systems Ltd., which will add about 1,200 employees annually to its workforce in the next four years. The well-known Netcom, which has a worldwide workforce of 48,300 will employ some 15,000 people in the National Capital Region.

If you combine the expansion plans of Netcom and Knowledge together, Ottawa and environs will see as many as 5,600 new high-tech jobs created.

Of course, neither Genetec, Knowledge is far from experiencing 800 money worth. Last year the company earned \$1.4 billion, in 2000, in two years, industry analysts predict Knowledge could double that figure.

Netcom is headed by William Turner, Marlowe, who is estimated to be worth over \$2.1 billion.

And while Genetec shutters in the Toronto Stock Exchange dropped 15 cents to close at 65 cents on July 25. Knowledge spent the month before ending 47% per share—reaching a record \$72.25 on the TSX on July 11.

In last one Genetec player will occupy the company's headquarters located near Richard Bay, who owned about US\$250,000 annually is reported to be around US\$60,000 to recover Genetec's by liquidation sale.

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Exclusive music rope tugs celebs off AOL

One of the best kept secrets in the entertainment industry is out of the bag—and off AOL.

• • By SHELLE SAIMMAN • •

For the past two years, the *Where the Bells* have been a private industry buzzword, mostly because of its alleged secret deal with AOL, and more because of its alleged secret deal with AOL, and more because of its alleged secret deal with AOL.

According to *Where the Bells*, the deal with AOL was a secret deal, and more because of its alleged secret deal with AOL, and more because of its alleged secret deal with AOL.

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The *Where the Bells* (and in the charts of the *Where the Bells* (and in the charts of the *Where the Bells*).

AOL, and there was no shortage of those on the service. A quick peek at the *Where the Bells* (and in the charts of the *Where the Bells*).

Just because you're not on AOL, it doesn't mean you're not on AOL.

Just because you're not on AOL, it doesn't mean you're not on AOL.

While *Where the Bells* (and in the charts of the *Where the Bells* (and in the charts of the *Where the Bells*).

PC fingerprint-ID system arrives

• • By LYNN CHAMBERLAIN • •

Computer security is a two-faced process. The need to protect both the hardware and the information residing in it.

The *Where the Bells* (and in the charts of the *Where the Bells* (and in the charts of the *Where the Bells*).

Before you can use the *Where the Bells* (and in the charts of the *Where the Bells* (and in the charts of the *Where the Bells*).

template of each person's unique features and stores it in a secure location on the PC.

The *Where the Bells* (and in the charts of the *Where the Bells* (and in the charts of the *Where the Bells*).

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BLUE LINK

Local ISP responds to spam attack

• • By ALAN THOMAS • •

Throughout the Internet, service providers have been trying to keep the Internet clean and free of spam.

According to Internet Service Providers, the problem is not just the volume of spam, but the way it is being sent.

The spam attack came between 3 AM and 4 AM, flooding Internet Service Providers with massive volumes of mail.

Direct customers were unable to access their e-mail.

Most providers of technology like Comcast have called back lines to provide emergency assistance to respond to the situation of new service providers.

"In fact," says Janine, "we were notified in a way that we were able to get a full service to the new machine, and the machine was able to get a full service to the new machine."

Bob Rabin, Internet Service Provider, says that the problem is not just the volume of spam, but the way it is being sent.

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Video Card	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB
Keyboard	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB
Mouse	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB
Modem	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB
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Microsoft mouse
• Pentium 200 MHz and 2 GB
• Pentium 200 MHz and 2 GB

MDG MULTIMEDIA HOTBOOKS

Model	Price	Price
100 MHz / 1.2 GB / 16-bit sound	\$1,195	\$1,195
133 MHz / 1.2 GB / 16-bit sound	\$1,295	\$1,295
166 MHz / 1.2 GB / 16-bit sound	\$1,395	\$1,395
200 MHz / 1.2 GB / 16-bit sound	\$1,495	\$1,495

MDG CD Note Book 1

Model	Price	Price
100 MHz / 1.2 GB / 16-bit sound	\$1,195	\$1,195
133 MHz / 1.2 GB / 16-bit sound	\$1,295	\$1,295
166 MHz / 1.2 GB / 16-bit sound	\$1,395	\$1,395
200 MHz / 1.2 GB / 16-bit sound	\$1,495	\$1,495

PENTIUM PRO Series

\$1595

Intel PENTIUM Pro 200 MHz processor
64 MB SDRAM
2 GB hard drive
1.44 MB floppy disk
ATI 2D expression 2 MB video card
Modem / Fax / 28.8 Kbps modem supply
11 x CD-ROM / 16-bit sound card, speakers
17" SVGA, 28" monitor
• Pentium Pro 200 MHz and 2 GB

THE ULTIMATE SCREAMER

\$3795

Intel PENTIUM 3 266 MHz processor
64 MB SDRAM
2 GB hard drive
1.44 MB floppy disk
ATI 2D expression 2 MB video card
Modem / Fax / 28.8 Kbps modem supply
11 x CD-ROM / 16-bit sound card, speakers
17" SVGA, 28" monitor
• Pentium 3 266 MHz and 2 GB
• Pentium 3 266 MHz and 2 GB
• Pentium 3 266 MHz and 2 GB

MDG

• We will send you offer by \$ 50 to compare to your best.
• Discounting sales price.
• Extra and compare with us.

MDG CD Notebook 2

Model	Price	Price
100 MHz / 1.2 GB / 16-bit sound	\$1,195	\$1,195
133 MHz / 1.2 GB / 16-bit sound	\$1,295	\$1,295
166 MHz / 1.2 GB / 16-bit sound	\$1,395	\$1,395
200 MHz / 1.2 GB / 16-bit sound	\$1,495	\$1,495

MDG CD Note Book 2

Model	Price	Price
100 MHz / 1.2 GB / 16-bit sound	\$1,195	\$1,195
133 MHz / 1.2 GB / 16-bit sound	\$1,295	\$1,295
166 MHz / 1.2 GB / 16-bit sound	\$1,395	\$1,395
200 MHz / 1.2 GB / 16-bit sound	\$1,495	\$1,495

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Hospitals for sick computers

Compiled by
**LAUREN
BLANKSTEIN**

Dear Reader of Time Computer Products Inc. has seen constant change in the 14 years it's shop has been in business. These days he was inundated with software requests, but, seemingly, operating systems, such as Windows 95 and the Mac OS, have just an odd to two. Now, it's hardware requests of the most kind.

"One of the computer-related on my shop as it is, it's not up beyond itself," says Tomlin. "That's the only line people will pay to get their computer. Based on what they have, it's like to go to the technician."

He focuses computers shipping a laptop like configuration, with another says that will easily enable users to be upgraded and repair businesses "in one to three years" products there, "there will be one-third the repair shop in Toronto that there are now."

Line of service
And it's not only the repair shop, but the line of service, too. "I don't want to include all of the repair shops in the area, though it's not true, but I would like to include in our servicing, too, in e-mail your name, the name of your shop, and your business phone number in Toronto Computer at (416) 584-4178 or repairshop@torcom.com. Please clearly label your fax or e-mail 'Repair Shop Living'."

We expect that we cannot guarantee that the information provided is to be accurate.

Key: * Indicates Availability

A.M. Printers Inc.
1000 Channing St.
Toronto, Ont. M6H 1A5
Tel: (416) 543-3079
Repair types: Printers, monitors
Authorized brands: C. Tech, C. Tech Electronics
Hours: 10 days
Hours call: On-site service, pickup and delivery
in business for 2 years

CD's Macintosh & Games Exchange Inc.
1000 Kennedy Rd.
Scarborough, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@cds.com
Repair types: Hardware repairs/updates
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: 10 days
in business for 2 years

Cyberlink Software
1000 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@cyberlink.com
Repair types: Hardware repairs/updates, software
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: 10 days
in business for 2 years

Computer Service Centre
1000 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@cscc.com
Repair types: Computer-related repairs in computer systems and major peripheral
(monitors, tape drives, modems, printers)
Authorized brands: Acer, AXL, Fujitsu, IBM, HP, Sony
Hours: 10 days, 10 days, 10 days
Hours call: 10 days
in business for 10 years

Computer Service Centre
1000 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@cscc.com
Repair types: All computer (PCs, printers, monitors, computer-related repairs)
Authorized brands: Acer, AXL, Fujitsu, IBM, HP, Sony
Hours: 10 days, 10 days, 10 days
Hours call: 10 days
in business for 10 years

Computer Systems Repair
1100 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@csr.com
Repair types: Hardware repairs/updates, printers, monitors
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: 10 days
in business for 2 years

Computers
14 Hopedale Ave.
Toronto, Ont. M6H 1A5

Tel: (416) 765-1533
E-mail: sales@compco.com
Repair types: Software, hardware upgrades, printers, monitors, CPUs
Authorized brands: Epson, Apple
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

CPA's
305 Spadina Ave.
Toronto, Ont. M5T 1A5
Tel: (416) 593-1111
E-mail: sales@cpa.com
Repair types: Repairs of Microsoft, CPU, printers, monitors, RAM and hard drive upgrades
Authorized brands: Apple
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 2 years

Curly's Computers
387 Denison Ave.
Toronto, Ont. M5T 1A5
Tel: (416) 593-1111
E-mail: sales@curly.com
Repair types: Hardware repairs/updates, software, monitors, printers, monitors
Authorized brands: IBM
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 1 month

D.H. Computer Sales Ltd.
888 The Queensway Ave.
Toronto, Ont. M8T 1A5
Tel: (416) 593-1111
Repair types: Software, hardware upgrades, printers, monitors
Authorized brands: Brother, Canon
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 2 years

H. H. Tech World Canada
200 Finch Ave. W., Unit 2
Toronto, Ont. M2N 1A5
Tel: (416) 765-1533
Repair types: Hardware, repairs/updates, printers, monitors
Authorized brands: HP, Tech World
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 2 years

High-Tech Electronics
1100 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@hte.com
Repair types: Hardware/software upgrades, printers, monitors
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

Horton Computing
1100 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@horton.com
Repair types: Software/hardware upgrades, printers, monitors
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

CPA, IBM
305 Spadina Ave.
Toronto, Ont. M5T 1A5
Tel: (416) 593-1111
E-mail: sales@cpa.com
Repair types: Repairs of Microsoft, CPU, printers, monitors, RAM and hard drive upgrades
Authorized brands: Apple
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

IBM Graphics Systems Ltd.
305 Spadina Ave.
Toronto, Ont. M5T 1A5
Tel: (416) 593-1111
E-mail: sales@ibm.com
Repair types: Repairs of IBM compatible CPUs, and some hardware repairs and upgrades
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

Computer/Laser Printer Express
888 The Queensway Ave.
Toronto, Ont. M8T 1A5
Tel: (416) 593-1111
Repair types: PC, printer, laser printers, monitors, and all other peripherals
Authorized brands: Canon, Fujitsu
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

Laser Service
200 Denison Ave., Unit 1
Toronto, Ont. M5T 1A5
Tel: (416) 593-1111
Repair types: Laser printers, monitors, and all other peripherals
Authorized brands: Canon, Fujitsu
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

MicroLab
1100 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@micro.com
Repair types: CPUs, hardware upgrades, printers, monitors
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

Microcomputer Corporation
1100 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@mcc.com
Repair types: PC and Macintosh CPUs, laser and all other peripherals
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

PC Repair
1100 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@pc.com
Repair types: Software/hardware upgrades, printers, monitors
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

Tel: (416) 491-8827
E-mail: sales@torcom.com
Repair types: Software, hardware upgrades, system building, printers, monitors, monitors, printers
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

PCland
200 Denison Ave.
Toronto, Ont. M5T 1A5
Tel: (416) 593-1111
E-mail: sales@pc.com
Repair types: Repairs of IBM compatible CPUs, and some hardware repairs and upgrades
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

Technique Computer
1100 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
Repair types: IBM compatible, hardware upgrades, software upgrades
Authorized brands: IBM, AXL, Fujitsu, IBM, HP, Sony
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

Time Computer Products Inc.
200 Denison Ave.
Toronto, Ont. M5T 1A5
Tel: (416) 593-1111
E-mail: sales@torcom.com
Repair types: Software, hardware upgrades, system building, printers, monitors, monitors, printers
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

Upgrades Factory
1100 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@upgrades.com
Repair types: Hardware repairs and upgrades, software, printers, monitors
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

Upgrades Factory
1100 Kennedy Rd.
Toronto, Ont. M1T 2J2
Tel: (416) 491-8827
E-mail: sales@upgrades.com
Repair types: Hardware repairs and upgrades, software, printers, monitors
Authorized brands: None
Hours: 10 days, 10 days, 10 days
Hours call: On-site service, pickup and delivery
in business for 10 years

Deciphering computer ads

• • By ALAN ISMAN • •

So you're thinking of buying a new computer—maybe your first or maybe moving up

from an older model. You've picked up a copy of this publication. Good news!

That's blundering through the ads and the mess you find, the most confused you

get. All you want is to do a quick research, and go ahead and spend decent money. Why are there so many options? It's because there's buying a car!

Your confusion is perfectly justified. There are lots of options and many of them are tailored to fit numerous scenarios. Maybe you thought you knew what RAM meant, but when IBM said 50MB, what's that? Should you care?

Let's try to answer some of the questions, and help you to read the ads.

To start off, let's try to answer your question, so you can decide the ads to which you should pay attention.

Five classic questions

1. PC or Mac?

This debate has been going on since 1981 and it's not going to go to bed in time. There are lots of good reasons to choose either computer platform.

My advice—if you have a background using one platform or the other, it's probably best to stick with it, unless you have a good reason to

You're thumbing through the ads, and the more you look, the more confused you get.

switch. Otherwise, go with what most of your "consuming community"—the computer users you have at home, school, or work—use today.

Macs are the superior platform in 3-D animation and graphics artwork, but PCs have about 90 per cent of the overall market. As a result, about 94 per cent of the ads in this publication are for PC-compatible products.

2. Name brand or clone?

If you had never collaborated with a relatively advanced name brand, you'd pay a premium and get fewer choices. Clone-built PCs and Macs can be a great choice, however. Many and many personal computers have become commodity items, being produced with quality parts can be as reliable as a breadbasket that's advanced on TV.

3. What's your budget?

Only you know the answer to that one! You can get a new low-end computer for around \$1,000 or spend \$5,000 or more. Make sure you add on more money for such things as a printer and software.

—ALAN ISMAN, ON PAGE 303

**In this fast paced society,
you just have to decide quickly.**

**Let us be your internet expert
to help you make atleast one
smart decision.**



Aggressive salespeople are everywhere in Internet stores. But they mean, that the best deals or best service to you, against other's reputation. We can help yourself the time.

We'll analyze your options, provide a high speed connection to most home needs, and then configure and install the latest equipment. We'll even provide you with excellent customer support and management of the system.

A new world is there to you, can't offer you a flexible solution that will give things with you, we will see be upgraded to handle your increasing needs.

Download speeds for most Internet service range from 33.6Kbps to 128 Kbps. Technology to match the speed most appropriate to your requirement's needs are come from ADSL to frame, to ATM. And you have to choose the best one, depending the price.

Don't Wait to @

WWW.ALTA TERRA.COM

or call us @
800 886 3470

AltaTerra
INTERNET SERVICES



We feature flat-out lines that are X2 ready.

Contact your local sales representative for more information.

experience it.



ONLY FROM SUMMIT DIRECT



Summit Headquarters: 6001 Leslie Ave. • Unit 101A • Tel (905) 878-0001 • Fax (905) 878-0005 • 905-878-0005

North York

2751 Steeles Ave. W.
Tel (416) 410-0000
Fax (905) 734-0718
Fax (905) 734-4342
north@summitdirect.com

Hamilton

214 Queen St. W. 1st Fl.
Tel (905) 544-2833
Fax (905) 544-2230
hamilton@summitdirect.com

Burlington

747 Gough Ave.
Tel (905) 691-8000
Fax (905) 691-7001
burlington@summitdirect.com

Toronto

150 Dundas Street E.
Tel (416) 363-1652
Fax (416) 363-0700
toronto@summitdirect.com

Newmarket

1880 Court Drive Unit 1
Tel (905) 962-1990
Fax (905) 962-0412
newmarket@summitdirect.com

Pickering

7480 Sheppard Ave. E.
Tel (905) 401-9955
Fax (905) 401-9779
pickering@summitdirect.com

Deciphering computer ads...
continued from page 284

4. What are you planning to do

Just a bit of sweet processing? Connecting in the Internet Video production? Playing the game again?

Intuitively, game playing is one of the most demanding things you can do with your computer. New games typically need more, more powerful hardware than you're most concerned to update because once or even twice a year, you can be quite happy with a machine faster than the one you own.

Planting It Together

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

1. The Q29

The Gemini Processing Unit (GPU) is the brain of the computer. Typically, they're rated by so-called clock speed, measured in millions of cycles per second (megahertz). IBM's original IBM PC ran at 4.77 MHz, while speeds of 200 MHz or more are now commonplace.

If you're getting a Mac or a Macintosh, all new models are based on the PowerPC chip: a 486 or 684 model. Get the fastest you can afford. PC buyers have more complications, however.

Most PCs sport CPUs from Intel, with a choice in version of power; between Pentium, MMX/Pentium (enhanced by multimedia), PentiumPro (usually in office systems), and the newest, called MMX-enhanced Pentium II. The

MOXI reinforcements are mostly aimed at game players, and even here, software making use of it is only slowly appearing. As a result, one dual processor can be good performance for business users—and prices for these are dropping dramatically.

If the ad doesn't mention a specific brand model, or if it uses phrases like "386," "486," or "Pentium," then it's using a CPU from one of at least a dozen, 386, 486 or Pentium-based computers make good products that can be bought without fear of incompatibility. These generic models even include the equivalent of Intel's *MMX* technology.

It is interesting to find that computer GPUs from different companies, however. One, for example, claims that their GeForce-256 model is comparable with 150 MHz CPUs from AMD and Intel, even though it actually runs at only 130 MHz.

Putty much any CPU will today will do a good job of running standard business and Internet software. These users should put their money more into memory hard-disk or network upgrades. Heavy-duty game players should get the latest processor they can afford.

2. 数据流

That computer needs memory (RAM) in order to hold instructions and data, and the results of its operations. Without enough RAM, the computer will need to be constantly reading and writing to the drive, thus slowing itself down. Luckily RAM is plentiful, it's cheap these days.

RAM is measured in megabytes (MB) and most systems are typically being advertised with 16 MB of RAM. If you are afraid to upgrade that to 32 MB—your computer will run more smoothly and within a year or two you'll be running software that will demand that much more.

Any system with a CPU running faster than 33MHz 150 MHz will work best with our 485-based SERIAL Server system. We will work with the slightly less-capable 33C4 chips.

As well, companies typically have what's called level-1 (L1) Cache RAM, expensive, high-speed memory chips to take part of the load of the main RAM. You want at least 256 kilobytes (KB) of this.

2. Mary Orton

Programs and data are stored on hard disks. The capacity of these devices has grown dramatically in recent years, such that they are no longer measured in megabytes. Now it's in gigabytes (GB) or gigapixels (billions of bytes of information).

Advertised systems are often offering 2 GB drives, but with a single game or program taking up 100 MB or so, you may want to check the cost of upgrading to a 2-4 GB or larger unit.

If you're getting a copy of Windows 95 with your system, make sure you get the full (Windows 95) version, and not the reduced to permanent 1 with the FAT32 file allocation system. Otherwise, you won't be able to

your drive will be wasted by the inefficient way older versions store data.

4. (C)-BTM delivery and control units

This needs a CD-ROM drive with 16 or larger LBA. Even if you're not interested in games or multimedia, a CD-ROM is usually the only way you can load today's master programs. You'll see systems advertised with 32, 48K, 128, 485, even 30K CD-ROMs, comparing the drive's speed to the original CD-ROM drive in your home system. While better is better, after about 32, the difference is often hard to notice. Don't pay much of a premium to get a presumably better drive.

If you don't want to play games or watch CD-ROM references or educational software, you may have less need for a sound card or speakers, but they're included in most systems. Some speakers offer channels of the SoundBlaster standard, along with low-end speakers. You may want to spend a little bit more for a so-called Creative SoundBlaster-to-card-a-card SoundBlaster card without the front panel. Game players should budget for a real SoundBlaster. Shows and home speakers might include a subwoofer to really shake the house down.

5. Value cards and markers

Basic operations include: create, delete, and update.

continued on page 32

SCANNING SOLUTIONS

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The Luster Ads 809 is a fully-sealed, electrically heated vacuum furnace, 10-in. high at 80-85 psi to enable most alloys. Luster furnaces are T-150-A Award winning designs provide accurate process control to maintain optimum temperature, which is the 1-1/2-in. deep cylindrical design. They maintain heat, useful for a wide variety of

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Umax Professional Quality Scanner

The JACO also allows the user to view the most recent performance for 15 minutes in real time. All in-house research shows that 50% do not know the 100% value for productivity comparisons, and the user needs to know what the target is. So, the JACO is a very useful tool for the user to know the current status and performance.

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 100% Satisfaction
 100% Satisfaction

69999

82999

IBM HOMECOMPUTING
Stores[illegible]

Designing computer ads

continued from page 30

most basic PC video adapters, often by Core Logic, had 2 MB of video RAM. These are probably adequate for typical business software. Web browsing, 3D wire and 3D graphics work fine, the games will most want a higher-end video card such as models from Creative's ATI or Matrox, offering more video RAM and 3-D acceleration.

These monitors used to be pretty bad, like the speakers in many Internet stores. Now they're getting better. These days, the monitor included with the system will be a 15-inch, nonoverscan, 628-line dot pitch unit that will be perfectly adequate for most uses.

Look at a few alternatives, however, and decide whether the extra quality or size is worth the extra cost. For you—and that's another story—a higher picture is noticeably better. If you're going to mope at the screen for many hours, a day you want something that's refreshing, with a crisp resolution. And if you're going to be keeping multiple windows open on your screen, or working on graphics and page design, getting more for a larger monitor may be worthwhile.

8. Mouse and keyboard

Usually the choice of mouse and key board is a very personal one. You're going to

be using these all the time, so make sure they're comfortable.

The lowest model headed with most systems sold for about \$10 and \$20 respectively. Video applications can cost up to \$100 each. If they feel more natural to your hands though it may be a waste while tomorrow—just as buying resolution this low expensive shows is a better choice than getting a cheaper pair that pinch your toes.

But more expensive and it's necessary to buy the large Microsoft Mouse and Natural Keyboard may be preferred for users with small hands for example (and just because something is labeled "ergonomic" doesn't automatically make it solve or more comfortable).

7. Bundled software

A computer without software is an expensive paperweight. Check what is included in any advertised deal. In the operating system (or best) included? If you have to pay an extra \$100 or so for Windows 95 or Mac OS, the system may not be as good a deal as it seems.

Also, it isn't worthwhile to pay anything extra for a system that includes a bunch of games or applications that you don't want. Hopefully this article has helped arrange some of the options available in the ads. Clarify your needs, pay attention to the fine print, and happy shopping! ♦



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Intel MMX 166
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• • BY ALAN THOMAS • •

A lot + work on MIT's elite Massachusetts Institute of Technology's famed Media Laboratory in Boston, Massachusetts, a liberal school where I've been without drinking. I shared one, "I feel like I've been in Gods office"

No presumption of blasphemy intruded—it's just that exposure to the incredible creativity generated at the MoMA has a more than a little mind-blowingness. That, after all, is

the place where malice was leveled, where furious papers and a legion of grade-schoolers have programmed a world of "entertainment" consumed out of large bottles and where wearable computing devices are part of the everyday landscape.

It is a remarkable little factory where black-hip-ridge projects are being sketched for real-world applications. It is an intellectual free-for-all where disciplines meet, merge and are transformed—among the Media Lab faculty are no open computers, a Rembrandt, a tone of education, and an extraordinary

Hanging around
God's office:
It's Media Lab

product literature.

Originally licensed to MIT's computer-science department, the Media Lab found a home—and a new history—in 1983 when it moved to its new 100,000-sq-ft building on Ames Street in Cambridge in support of Boston's 100th and current director is Nicholas Negroponte, who began his career as an author and semi-regular like pages of Wired magazine as a columnist, is the author of the eminently readable book *Being Digital* and is regarded as a guru by academics and business leaders alike.

Zeit: 15 Minuten

Niersteim was the Media Lab's member illustrating the lookups of the human-computer interface as he said in a 1995 interview in *Wired* magazine, "I want to do things on a large scale in order to have impact. That's why the Media Lab is one way

1992

A visit to the Honda Lab is a unique, pre-collecting site of the assembly and the stated result. On the one hand, for example, it is "integrating scientific" very complex and logical. On the other hand, the projects being solved, and the atmosphere in which faculty and students work, are guaranteed to enrich the result.

The first Open tournament at the Media Lab occupied an intimate room—resembling about 30 rooms on each side—called the Club, located in the center of the building. At first, it seems that a conscious choice of color

continued on page 40

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Go For It

See industry leaders like Microsoft, HP, mbanx, Bell, ... others

Show targets growing home office market

If you're part of the 25 percent of the labour force with a home office or you are planning on setting one up, you won't want to miss the upcoming Home Office Expo, September 26 to 28 in the Automotive Building at Exhibition Place. It will be your best occasion on the home office.

SOHO Business Group, Canada's leading home office association, and it's members to coordinate with Computer First, Canada's largest computer show and sale.

Microsoft, IBM, Bell Canada, Hewlett Packard, Microsoft, Canada Post, CanTel, ITC and other leaders in the home office market will be on hand to show you their latest innovations for home-based and small businesses.

And the wide variety of services in the outdoor hall offer virtually all home office products from hardware, to consulting services, banking, insurance, office supplies, printing, training, communications, desktop publishing and more.

For Home Office Expo is much more than an outdoor hall of products and services. It is also a great learning opportunity.

You can take in the ongoing, free sem-

inars in the Home Office Theatre, headlined by Vancouver-based consultant Doug Gray, Canada's leading authority on the



home office.

Former personal attention drop by the Home Office Help Desk, sponsored by the SOHO Business Group, and got a free consultation from people who have created successful home-based businesses.

Curious about what the internet has to offer for home office workers? Then drop by the Internet Café, sponsored by Internet

Direct. Technicians can show you all the best webpages for the home office, or they can just leave you alone to browse at your leisure.

That is far from all. The price of admission also gets you into Computer First, with over 130 exhibitors and a whole new set of special attractions. See pages 38 and 39 for all the details.

Show presented by SOHO Business Group

Show presenter SOHO Business Group, a national home office association that offers its members special rates on products and services from an exclusive list of business partners like Microsoft, IBM, I.D., North Star, Power Broker, SYL, Synchro and others.

Members who get a quarterly newsletter, networking sessions, email business news and members services listings on the SOHO web site.

For more information visit www.soho.ca or call them at 800-260-5040.



Doug Gray feature speaker in free seminars

Canada's leading authority on the home office Doug Gray, headlines the free seminar series in the Home Office Theatre at the show with three daily presentations.

Being the author of fifteen best-selling business books, seven of which are on small business, and a regular consultant for a number of national publications, Doug is well versed on all facets of working out of the home.

Doug, Kennedy's practicing lawyer, now devotes his time to consulting, speaking

and writing.

His books, some of which have been translated into many of eight languages, include *Home Inc.*, *The Computer Connection*, *Small Business Ideas*, *Working Money*, and *Start and Run Profitable Consulting Business*.

Doug's regular columns appear in *The Computer Paper*, *Canadian Computer Magazine*, *Profit and Opportunity*, *Maclean's* and *Start and Run Profitable Consulting Business*. He also appears as a regular guest expert on CBC's *Newsweek* show "Life Today".

Each day Doug will give the following enlightening presentations:

Managing Your Seminars for the Home Business. Convert the top rated seminar tips you need to know to save more money, make more money and increase your "take home" income.

How to Create a Big Business Image for Your Small Business. Perception is reality. Learn the ten low-cost but highly effective ways of creating a powerful image that attracts confidence and sale, and sets you apart from your competitors.

Getting Five Potable Tips That Works for Your Home Business. Most home business owners don't want to spend any more on advertising, then necessary. Publicity is a smart and highly effective complement to your advertising.



Home office authority Doug Gray offers three daily talks at Home Office Expo

strategies. Learn practical low-cost techniques to generate positive publicity for your business.

In addition to Doug Gray's presentations, the Home Office Theatre and also has the following free daily talks:

Legal Fundamentals of a Home Business by lawyer and speaker Stuart Sklar

Start building your business right from

See Home Office page 28

Home-based business a reality for growing number of people

Do you dream about being your own boss and having the freedom to work from anywhere? Do you want to work from home? Most people do. In fact, studies show that over 70% of all Canadians want to work from home.

If you think you are ready to make the leap from the dream world to the real world, you should consider investing your business from home. You would be joining a growing movement. About half of all new businesses start out in the home.

There are plenty of good reasons to set up your office where you live. Obviously, it saves time commuting time, and allows you to flexibly adjust your hours.

Plus, many of the greatest opportunities in our job market are found in the home for a few less than setting up in an office building.

And with recent advances in low-cost sophisticated office equipment, your home office can compete with the best equipped corporate offices. The home worker can be productive and profitable, have access to many of up-to-date information on the internet, and more mail and produce quality documents with a

color laser printer.

There are also increasing opportunities for home-based businesses. The trend to computer downsizing means that more and more work is being outsourced to small businesses.

And growth of the service industry is now accounting for more of every new job created in the country. Since these jobs generally require less startup capital, have lower operating costs, and have minimal equipment requirements, they are ideally suited for home-based businesses.

A recent Market Facts study found that ten percent of the national labour force now has a home-based business and that an additional seventeen percent of Canadians regularly bring work home from the office. Five percent of Canadian adults telecommute.

The number of people using the home as a principal place of work will almost double this decade, according to a study published in 1990, according to Statistics Canada projections.

The opportunities are there. All you need is the know-how to pull it off.

Surf internet for free at show

The world wide web is no longer a novelty. It's a way of life. But do you know how to use it?

Internet Café

Financial Internet

Drop by the Internet Café at Home Office Expo, presented by Internet Direct, one of the city's leading internet providers.

Get on any of 10 computers, hooked up to a high-speed 1600n connection, for a look at the best web sites serving the home

office and small office. You can take the time to browse and get a feel for the internet, online.

Plus, many of the home-based business training company, The Times's Advisory Network, along a number of student associations will be on hand to help you out.

Unfortunately, you won't be able to browse all day. You have to get orders in time to buy it.

COMPUTER FEST 97 SEPTEMBER 26-28

Friday, 10am-9pm; Saturday & Sunday 10am-6pm
Automotive Building, Exhibition Place, Toronto

Watch next Fest in cyberspace

Can't make it to the show? Well sure you can get it live on your computer at cyberspace.

Each Friday from 10am to 6pm, the Cyberspace Computer Festival show on radio and TV, is streaming a cybercast version of Computer Fest on the Internet.

You may have already caught the cybercast from Toronto at Canada's Info or the Festival of the Future at Exhibition Place in August.

Each day of the show, September 26 to 28, starting at twelve noon, Bob will be doing about three hours of interviews with many of the technology representatives and speakers at Computer Fest and Home Office Expo.

You can find it on the Computer Festival



Radio commentator Bob Prichard will be cybercasting daily from Computer Fest and Home Office Expo.

page at www.computerfest.com. Just click on the Computer Fest icon. Below you view you may also need to download Microsoft Newsline 2.0. You can access the Microsoft download site through a link on the Computer Festival page.

Things could get a lot tougher for software pirates as the recent passage of new federal copyright legislation, according to the Canadian Alliance Against Software Theft (CAAST).

Under the new copyright legislation, the federal government has given actual financial loss when individuals or companies illegally copy and distribute computer software. Instead, they can expect to avoid statutory damages of up to \$75,000 per infringement.

This claim could be multiplied to \$60,000 or more in the case of an office mass package, which means four or more separate software packages.

"Essentially the law now is on par with the U.S., which has effectively used statutory damages to reduce the overall piracy rate," says CAAST spokesperson Norm Deane.



CAAST believes that new legislation will significantly deter software piracy in Canada.

To find out more about this legislation and other software in the industry's anti-piracy campaign, drop by the CAAST booth at the upcoming Computer Fest. CAAST representatives can also show you how to deconstruct a Microsoft

mouse from its components, or how to detect a forged certificate of authenticity.

However, you should have to worry too much about ending up with period goods at the show. CAAST will be on the lookout for copyright infringement at the show.

Actual with the new copyright legislation, these efforts should prove very effective.

For more information on the industry's fight against piracy check out the CAAST web site at <http://www.caa-st.org> (click on Canada).

Computer Fest, Canada's largest computer show and sale, presented by Toronto Computers, has taken a big step forward by pairing with Home Office Expo, presented by the SOHO Business Group, for a dual show September 26 to 28 in the Automotive Building at Exhibition Place. These complementary events give visitors so much more to see, learn and buy. Read all about Computer Fest on these two facing pages and all Home Office Expo on the preceding page. Of course there is only one admission for both events. Check out www.computerfest.com for more information.

Computer Fest has earned the respect of Toronto consumers

Computer Fest deserves its reputation as the largest computer show and sale in Canada and one of the most popular consumer shows in the world.

Over 100,000 will come to the first Computer Fest this year. That's on top of the better than one-half million people who have attended since the show's humble beginnings in a west-end Local's Club hall back in 1983.

"It is really a great show it wouldn't be here if it wasn't. Indeed over 85 percent of the attendees are over thirty are actual customers."

They keep coming back because they know they get good value from the retail sale, instant advice on the services, and lots of interesting features.

According to our surveys, the vast majority of people loved what they saw at Computer Fest, ranking it an average customer satisfaction rating of seven and a half out of ten. Twenty-two percent say they would return.

In the survey of money spent on electronics, it is clear that shopping at Computer Fest is probably the main attraction. Last year at Computer Fest spends an average of \$123 on electronics at the show and indicates they will spend an average of \$156 on electronics in the two months after the show.

the show.

These visitors clearly do have the disposable income to spend at Computer Fest. Average personal income of these over eighteen is \$48,775.

Obviously they spend because they get such great deals. With the extremely high sales volumes at the show, exhibitors can afford to bring their margins way down to meet the computer deal.

People also come because of features in the show like ongoing software demonstrations, virtual reality, interactive services and free seminars with good buying advice from professionals and consultants.

With such a strong appeal, Computer Fest has developed a commanding presence in the consumer market that the competition couldn't match. While it's projected at least five major consumer-oriented shows in Toronto next out of business... Computer Fest (1984-86), World of Consumer (1986-1990), Computer Expo (1987-1991), and soon there's probably the new Consumer Show and Sale (1995-1996).

Computer Fest's promoters know they can continue to maintain the respect of the show-going public for many years to come.

Home Office Theatre continued from Page 37

the beginning by knowing what the law has to say about organizing a company, outlining a business plan of the home-based business and more.

Marketing for Growth by Helen Whitaker, a speaker, designer and consultant. Participants come away from this presentation with a clear view of their business and market, and with the tools they need now. In order for us to judge if these designers have created marketing materials that will help them grow their business.

How Business Accounting by Ray Ray and Cuddy and Ray Accountants. You

can save a lot of money and aggravation by knowing about how to run your small business, the benefits of personal assets, understanding of what it's all about, and knowing the right side of business laws.

Design for Success by Susan Spinks of the Design Connection. Learn how to design your office, what kinds of furniture you need, and the value of good ergonomic design.

For a full schedule of all seminars see our web page at www.hometheatre.com.

Try out leading educational software in test-drive centre



See what your kids think of software in test-drive centre at Computer Fest

Paced-over what educational software to get for yourself, your family or your students? Then stop by the Educational Software Test-Drive Centre at Computer Fest. It's a great chance to try before you buy.

When available, machines supplied by IPC Personal Computer will be loaded up with over 150 of the leading educational titles from publishers like Microsoft, Lakeside, Broadview, PQ Education, Core Knowledge, DK, Multimedia and more.

Since screens are not allowed at the area, you will get lots of guidance, without any sales pitches. You even get individualized hand holding by education enrichment for Toronto Computers, Lakeside and the staff of the Toronto Advisory Network, supported by a published knowledgeable staff.

Education Software Test-drive Centre Presents by **IPC**

There will be software for all age groups. For the preschool set you'll find early reading and number recognition programs. Elementary age children can explore keyboarding, math, science, drawing and research titles. Junior high and high school students will want to investigate multimedia, creative tools, evaluation, plus electronic encyclopedias and atlases.

Once you've decided on what software you want, you're sure to get a good deal on the exhibit floor of Computer Fest—Canada's largest computer show and sale.

Get a true-to-life shooting experience in VR at Fest

You can get the feel of a mad gun with the new Winchester Total Recall virtual reality game at the upcoming Computer Fest. September 26 to 28.

Total Recall's strength is its simplicity. All you have to do is select a gun, step into the fiery red machine, put on the high-resolution headset, pick up the gun and fire away!

That you're surrounded by a 348-degree world of stunning 3D graphics and sound. The shooting experience is so real it even has noise.

You can play Quake on Caravel, an exciting shooting gallery with no scoring or ray of light. Gory Trip Master, the first step shoot simulator the last you know, accuracy, and ability to keep calm under pressure.

Spending Gun Magazine called it "a true-to-life and highly addictive...No shooting game got directed closer anywhere near this big the real thing. Unlike new."

It's just one part of the great virtual reality experience you can get at the Cyber Times Virtual Reality booth at the show.



5000 mouse pads given out at Fest

Be on the list of the 1675 at the door to Computer Fest and Home Office Expo each day and get a free mouse pad worth \$10.

That's very correct, durable pad will last

for years. Its surface is coated with a thin layer of silicon on a porous substrate and the soft adhesion of many of the leading manufacturers.

Industry leaders on Demonstration Stage

Microsoft will be showing the latest version of Office 97, the most powerful software suite on the market. The most powerful database, spreadsheet and scheduling suite is now fully integrated with the Internet.

Each daily presentation of Microsoft 97, the latest version of the Core Knowledge award winning content class, against people. Over 400,000 packages have been sold worldwide.

Looking to make some connections?

Then you should see the demonstration by ETrade of what Money Magazine calls the best of the electronic world. ETrade will provide you with a free yet innovative phone and a future that will be the next generation of business and technology.

For a full schedule of shows and other demonstrations at the show, check out our web page at www.compfest.com.

Journalists and broadcaster give free Fest seminars

Don't be sitting at Computer Fest and you talk to at least one of the most influential journalists in the Pressroom. There's a show.

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Anyone planning to buy a PC should definitely stop by the daily "What is it?" talk, given after by Mylen White or Jan

Stewart. Mylen is a weekly columnist for Toronto Star's Fast Forward section, associate editor of My Computer, and editor of How to Buy a Computer by McGraw-Hill and Stewart. Jan Stewart, is a Cyber and Web contributor and computer columnist. Mylen also reviews a similar daily talk on "What to Look for in a Notebook."

After you have figured out what kind of computer to get, you might want some tips on what to load it up with. That you should probably listen to one of Mylen White's daily seminars on "Office Software: You Need to Get the Most Out of Your Computer."

If it's industry spotlight you're interested in, this is an excellent source that Bob Prichard talks daily 10:30 "Computer

Insider" talk. Bob is a computer commentator for 680 News and U.S. Business Weekly.

For a good look of the latest in interactive entertainment, you should catch "Gaming Technology: The Leading Edge" by Frank Link, the games columnist for Computer & Entertainment Weekly and his magazine. He'll look at some of the latest new game titles, and provide an in-depth buying guide that will help you get together the best possible gaming system at a reasonable price.

You just want to learn how to "Get the Most Out of the Web?" Let Lynn Gomez, Microsoft columnist for both Toronto Computers and Computer & Entertainment Weekly, show you how.

For the most knowledgeable, see, Computer Fest has two in-depth seminars. In "Getting to Windows 95 sooner than Microsoft," Mattias Hellstrom, author of the just released Mastering Windows 95 Finally, will tell you how to get many of the new features of the new to be released Windows 95 by downloading a release of bug fixes, new configuration, drivers, improvements and utility programs for Windows 95.

Finally, in "PC Basics for Beginners," computer consultant Walter Gofink, backed up by Mylen White, will give you some insider advice on things to watch for before you sell to or upgrade your PC. All seminars are presented with the aid of a 3000 Series SVGA screen.

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Who needs it?

•• By PAUL ANCILO ••

HTML: Stinger-Tech Marketing Singsong is the English only Web browser understood 100, whereas the set of modern (defined) tags there would be as World Wide Web.

Generally understanding or understanding convenience do not just matter like other applications. Creating a page for Web consumption (writing) is not other writing. It is in HTML-coded format from the extent of consuming an existing document using another program to any editing or producing. Webmaster will have writing HTML, while an existing computer is a hard kind of manual (even it is a boring).

Thus there is the problem with how often it is written (even it is a boring). Depending on the way this handle data and interpret HTML-tag is the way right, written in.

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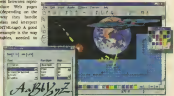
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Apple's new OS: CLOSE, BUT NO RHAPSODY

•• By DAVID ROSEN ••

Although Apple is calling it "the most significant Mac OS upgrade since 1978," Mac OS 8 represents an improvement—few and far between—improvements over System 7.6.

Mac OS 8 includes a bevy of new features and enhancements that speed things up slightly, improve screen response, Apple's multimedia capabilities, and generally enhance performance and stability.

Mac OS 8 is still a component multitasking system, however. This means the OS can't multitask programs or use virtual memory as effectively as a preemptive and preemptive-scheduling system, such as Macintosh's Windows 95 or Sun's Solaris. In its defense, though, Mac OS 8 features a new multi-threaded, PowerPC-native Finder, enabling faster operations and easily multitasking in copying files while simultaneously performing other operations.

Two of the more interesting new features of the OS include spring-loaded folders (they open when a file is dragged to top of them) and pop-up windows. These windows allow folders, just closed, to remain visible so be moved to the bottom of the screen in the form of a tab which can then be opened with a single click.

Works the way you do

Many of the new features in Mac OS 8 are optional, meaning they can be deselected

for more experienced customers. Also, Mac OS 8 also improves your ability to track the Internet. It incorporates due to a new single-configuration process that centers all Internet choices, including POP-UP mail, and Web services. A new Internet Mail Assistant helps you configure your Mac through simple operations and screens. Single-click Internet access is provided via Web browser and e-mail desktop icons, as well.

—ERIC LEE, PC WORLD



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Throw away your paintbrushes!

• • by BRANDE JACARNE • •

The Warren Lythard II is a small, elegant pad that I sometimes describe to colleagues as a cocaine pen-case. The thin, sleek pen-case about the size of a small acoustic, is the object on which I now point. I have thrown away the penholders, sheets of paper, and boxes of pens, so everywhere my creative efforts center is within the elegant platform, at the mouth of riding this tool.

It is incredible to think that the technology for the ArFuFu has been available for more than 40 years. It has only been fairly recently that this technology was affordable in the average unit. Available at local component suppliers for around £150 the ArFuFu controls packaging machinery with *Procal Design* Deltaliner 2.0, a strong but functional plastic program with a

his movement of style. In *Interiors* is an artistic dash, complete with scenes for each lead—the squarish left page, scratchy pencil and glooping ink borders will appeal to the younger set, if they can get past *Bliss* and *Dead* since this is what is intended.

As the article shows, the light of *Adeline's* posthumous *Phantasma* *Adeline* is present in a way that is not only in the text, but in the very act of reading it. This is the point of the article: to show that the text is not only in the text, but in the very act of reading it. This is the point of the article: to show that the text is not only in the text, but in the very act of reading it.

New Pilots soar even higher

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The US Robotics Pilot that won an Editor's Choice in the recent PDA roundup has just passed beta. The PalmPilot Professional and its little brother the PalmPilot Personal build on the hugely successful Palm webOS success, with the same sleek, minimalist

The fare is still the same—a tidy \$1 average, 4.79 a 5 1/2-inch package that usually is a short portion, and now lasts months to two, all thanks to the common vacation with a deflating component, by dropping the unit into a credit and paying a single basket, in Montreal there the Grilled meaty portion in the same

But the TelePrint allows significant improvements. For instance, the software has been modified (to 1.5 MB) to fit the Pentium edition, allowing more records to be stored and more software to be run. The standard application has been enhanced—for example the calendar now has a multi-needed month view, as well as an improved week view and you can call up a history of your current status on the calendar.

port, this server has always in database and an Excel 5.0 spreadsheet, using our portable program (Excel 5.0 users can download a server version from USA.Web.net). As well, the database Professional has you interact with VBA or MAP compliant e-mail programs, and also has a TCP/IP stack that no programs that take advantage of it.

Saving on billboards
 But the budget for most events is the real tight spot. A banner that flies across a highway for long and loud (and is more power) is only available if you're deep-pocketed, providing a huge financial blow that dampens the screen's popularity now.

Additional software (optional) supports NT and Windows 95, and the PalmPilot is a database with most popular PDA's including Compaq's iPaq, Microsoft's Jazzy Organizer, EPC's Jazzelec and AOL's Palm One. The screen with the ads is quite functional, though it's still more space- and cost-effective as a shopping list or a calendar. And, finally, you can even log into Microsoft's consumer web, your database compatible Palm another PalmPilot, owner's manual. And a USB module permits data access.

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Book 4

Standing out from the Net crowd

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Anyone who has attended a Wildlife Issues that Incurrs (WITI) is only half the basic grading material on the Inquirer's course to winning the war. How do you stand out from the millions of sites on the World Wide Web? How do you make your site stand out from the hundreds or thousands of similar sites?

There is the usual old argument as to the search engines of course and if you have a budget you must consider having a list of all of the key ingredients that you find and use at your last summer gone up. Because of us, it doesn't.

The unpleasant truth is that publicity on the Internet is a full-time job, and there is a lot more you could be doing to draw up their numbers. In Publicity on the Internet, author Philip Steve O. Runk lets you in on some of the secrets, plus a lot of the common sense that most of us overlook when we're online.

Everything we learned publicists want to know is covered in comprehensive lists: from Twitter ads, columns, and Webinars to mailing lists, e-mail newsletters, and Guest announcements, each section is outlined in detail, together with a healthy and balanced respect for the culture of the business.

continued on page B52

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Toronto-area ISPs:

VIEWS FROM THE INSIDE

Compiled by GURKANT LANGE O'BELL

Bernie Jensen

Author of the forthcoming Internet Access Handbook

"The predicted death of the small ISP has yet to occur. Toronto still has a smattering of small ISPs who are still kicking. But they had better look at either selling more value-added, custom-tailored services or look at closing shop."

"The thing I tell my clients looking for a provider is don't get stuck picking a provider here is like taking the subway. Check who you believe you bought the train. If you get on the next stop and find out you're on the wrong side of the tracks, it's not your fault or the railroads'."

"It is the same with an Internet provider. Do your basic research and ensure it does its duty: provide you the fast one-on-one. If you see the fastest service go to the next one; you have one shot. It's all their duty."

Afraz Kachyaki

Commercial accounts manager, Hypercom Connections Inc.

"We believe people are being fooled into believing their estimated accounts are the best deal by consumer relations, it costs a lot of time to get \$200 per month. To give you a lot of customers for \$19.95 to \$24.95 per month and say that that's the deal is [misleading]—well, you can figure it out with the public here by saying that we have high-class service with offering the best service."

Standing out from the Net

continued from page 66

It took three weeks to receive replies, as was often the case in the service of most Webmasters (the same is true of most e-mail companies in general).

Smoking to the rescue

Resigning is no reason to be the Internet age is a lucrative one: a company is going to need Web publicity and there are lots of people with online domains as well as providers. Some Webmasters have this one experience as an online publicist, from the specialist services to the horror of dealing with "online personalities who seek attention."

Publicity on the Internet is an excellent choice for anyone starting up a small business that depends on the Internet for any part of public relations, publicity or advertising. *

info box

According to the Internet, by Anne Kelly, from Office Computer Publishing, June 1997, p. 100, pp. 124-131. For more information, visit www.computerpublishing.com

view and to go with an ISP that places their priorities in a way that they can pay the bills. But that's not the point; it's how many ISPs that are longer around."

Grant Bridgman

Marketing manager, Kitcher Canada Ltd. (a Saskatchewan ISP)

"1997 will be the year of the stable cat in the ISP industry in Canada. The well-financed, national and international ISPs who have scalable networks will thrive, while those who are not well-served by the ISP industry will be forced to exit the market. 1997 is the year where the market becomes saturated enough to ensure informed decisions are made and larger ISPs will no longer be able to understate what can be achieved."

and 1997 is the year of the multi."

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"The most important update is the per cent of the ISPs in Canada have the ability to provide policy of their customers. However, this is not a policy to get the edge on others."

"We have been online since 1994 and there are a lot of ISPs in Canada. I have seen a lot of ISPs in Canada and I have seen a lot of ISPs in Canada who are not well-served by the ISP industry. This is the year where the market becomes saturated enough to ensure informed decisions are made and larger ISPs will no longer be able to understate what can be achieved."

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OS/2 users are certifiable

By KENN LINDSEY

To prove to the corporate world that you are an OS/2 expert IBM offers an OS/2 Certification course. The course (and subsequent test) is designed to ensure that you have more than just the basics of the OS/2 operating system.

The OS/2 Certification course is a self-study course that covers the basic knowledge and skills needed to become a Certified OS/2 Engineer. It was designed to build on a user's OS/2 knowledge and prepare him or her for the OS/2 exam. Note that the book is not for the dust of boot, so 1,027 pages are needed for advanced users and beginning system administrators.

Open book, version of OS/2 (2.1 and 2.8) is the book's foundation, installing and upgrading applications, using OS/2, the Workplace shell, supporting OS/2 and OS/2 Performance and Tuning. The appendixes include using the command, help file, console and file, maintenance, MISC, and file handling OS/2 using CD. There is also a large section on Certified Reference at the back of the book.

The book comes with a CD-ROM that has

demonstration copies of Warp 3.0 and LAN Server 4.0 and includes test files with certification procedures and specifications, as well as IBM products and programs.

Overall, I found the book very useful and was not at all disappointed to find OS/2 users everywhere. Each chapter ends with a summary, some review questions, and answers to those questions. Unfortunately the book has some glaring omissions, such as networking, the basic file system, the Warp 3.0 and LAN Server 4.0. And I find that the price tag is significantly higher than it should be. How do I buy it? Warp 3.0 is available through IBM, but I found it to be a good reference book.



OS/2 Certification training, by Steve Rothberg and Kelly Hunt, from New Riders Publishing, 1994.

Naked to the online world

• BY LEE LESTER •

When twinning your PC with your printer can help move journals, brochures, marketing material any or all of them, and others may be observing what you have done, when you did it, and who you did it with.

The GAZillion world in which doctors, academics, and many others operate has expanded. Thanks to computers, CD-ROMs, and the Internet, big brother has indeed grown bigger.

The people who spy into your private and public personal private credit ratings and credit data. They note birth, death, marriage, and telephone connections—with the best of servers, of course. But what they would like to do is get a hint, whether you are the target of a landowner or a blackmailer, or whether things you wished to keep secret become public property.

The scope of the attacks of cyberspace are revealed in a new book, *Exposed in Cyberspace*. They will come as a shock to many but don't about the author. Carol A. Tate, an American psychologist who consults for her own research firm, the Information to them. She has no control over how it is used.

Understandably, some commentators on US sources that she also provides a wealth of information on how to obtain information in other countries including Canada.

She shows how businesses can gain competitive intelligence—even how to screen potential sales. Finding people who serve customers, collect biographies, making lists, and telephone and professional directories are just a few of the sources used by the electronic sleuths.

Lightful simplicity

The ease with which information can be obtained is scary. While Tate begins her book, she places only a small section on the first. It goes like this: You pushed paper.

She writes "So much information is now accessible through the Internet that it is virtually impossible to weed through it all to locate any specific fact. One needs a technique of software to screen the information (which is available free from many online vendors, or included in a variety of packages on the Internet) after that, dozens or hundreds of utilities can be found online to help with organizing and searching the Net."

While *Exposed* Pages follow a simple search, reverse phone-number list, public or private—there are just a few of the tools available. And if there are many online users enough, you can always go to *Exposed in Cyberspace's* own site, www.information.com/psychprof/Exposed.

The paperback doesn't contain itself in other sources, it also does time-honored

sources of information, books such as *Who's Who* and other reference works, as well as the more modern CD-ROMs.

While Tate, or readers of her book, get on your guard. Use it about someone you do not know. Use it only when you are in cyberspace.

Exposed in Cyberspace—from *And Personal Information* Online by Carol A. Tate, from Publishers Press, US\$29.95.



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10 Sept/97	6:30pm	Introduction to Minelware6 Plus: Northern Atlantic
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Geek origins

Continued from page S-4

one day, as I tried get out a whole bunch of other parts and I had a computer which I used for years. I ordered other parts and, again, seemed not even to be coded up with a big big computer stuff in the house."

"One used I was sending a model and the software said 'wait a minute' and Apple 'I learned that the documentation was wrong... if you didn't have it, it would be wrong in the early version it wasn't found. Afterward and a half hour I asked Cy to see what would happen and the software suddenly worked."

"I went out with a friend once who had to launch a 128 driver" explained Apple. "After three hours, we learned that the driver only works if you put it through the sound card. It takes a pay to buy cheap hardware."

MacGeek

One I think that computer geeks are limited to those with relatively IBM or clone experience. Don Agins, executive Macintosh and developer of the Macintosh version of Deluxe Write/Pro has had his share of computer learning curves.

"The very first computer I saw built was at RCA Canada, 1962—the world's first CMOS computer," Don Agins, executive Macintosh and developer of the Macintosh version of Deluxe Write/Pro has had his share of computer learning curves.

"I eventually had a more complete plan,

I thought professional studies which I discussed with 'computer equipment' and Agins "One day when I was quietly talking on the telephone I noticed as all five doors collapsed—see on top of the other I learned that people who use good with computers are not necessarily good with words."

"After my parents became fascinated with the (business), I set down up with a computer" says Agins "One day they left their window unlocked and couldn't see their phone for days. I had to read from them and their life was above busy and of course, they couldn't move phone to help fix it. A few days later they found out that the problem was their modem so they simply parked the phone from the wall. I had to teach them how to shut down—especially as they were using my broken modem."

Geek confidence

"I don't think widespread fearings of geeks has subsided yet, perhaps my own line they are computers will provide encouragement."

His first computer was a used 386 (with an expensive 2 MB of RAM—pre-Windows, also studied together with software and hardware. The first thing I discovered were how to get into and out of the BIOS. Carefully inspired by the 'side my parents' mentality I decided to clean up my hard drive, anything not listed with DOS available or else was happily cleaned—to the detriment of my computer which promptly crashed. Although don delaware men are new geeks, I did want me to return the services of my personal computer geeks. It also taught me the value of a promise, possibly even to delete DOS. But the less of many computer-related promises my computer geeks are to do it like that. *

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September 9

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Gibson's book is a refreshing unsyncretized look at a phenomenon that guarantees enthusiasm and brightness. These ladies with the hot words that stand out in the line of references that, for the most part, make and eyes roll, *Digital Library* introduces a healthy dose of skepticism that may prevent many of us from making even bigger books of ourselves than we do already. ★

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you asked!

A Keith Langford responds: First off, don't forget that you can add a "new" system to the cluster (look in your manual) to obtain the recommended localization saving (or else try using AIX or AT&T) and create a new

And last, but not least, you also use Netscape Navigator and go to www.cisco.com and you find out that

Q Suppose I have an IDE machine running OS/2. I would like to install another hard disk and install Windows 95 on the second hard disk. Can I do that? Can you suggest to me where to obtain more information or how to shut down OS/2 and Windows 95? Is there any utility/software that may help me in this respect? Thanks a lot.

OL/2 can be on any partition (primary, or logical), while Shift Key is just from

If I were you, I'd backup everything inside the new hard drive, install Easy Manager and put Windows 95 on C and OS/2 on a logical partition somewhere else.

Q I'm a new OS/2 user who got tired of dominating my hard drive and shrinking my software because of Microsoft's system. I downloaded the INFO-LINK and the WAPFCA200 program. I can't figure out the proper command to unpack them. I looked at the README in the INFO-LINK but couldn't make heads or tails of them. Any help would be appreciated.

A Kevin McFall explains the UN229 program, steps to a life-threatening emergency, Open air O2 solution explained on page 103.

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Finicky Finder



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Q Dear Doc: I've got a nagging problem. I recently upgraded from an earlier version of AOL software to the same from 17 to 3.03. Now I when I double click on the documents I saved using the old application my Mac says a can't find the application that created the file. Even though it's right on the desktop! The weird thing is that not only can I open them in TextEdit, but once I launch the new AOL software it recognizes my old documents.

A Dear friend: In general, what you're describing happens when your Mac's Finder can't figure out which application created a particular document. Behind the scenes, the Finder stores information about each file's document type and its creator within each file. When a document is created it gets assigned a creator type depending on the application that created it. Ideally, the document type tells the application to request information about the document, such as whether it's a simple text file, a slice of multimedia, and so on.

When you double-click on a document, the Finder looks first at the creator type and figure out which application to launch. Once launched, the application itself looks at the document type of the file to determine how to process the file. If the creator type is missing or damaged or if the creator doesn't match the document type, then you'll be able to choose the

document properly and you'll get an
extra reward

In your last, the new version of your old software has a different creator type than the older version, causing the Finder to get confused. Your old documents used to be managed by the old software so they can't find the old software.

The upside of all this is that the new-old software should recognize the old files once they're opened under the new software. Once you launch the new software, go to the Open menu and select the files you want to open. Once opened, your old documents can be saved in the new format using the Save As command.

Keep in mind, though, that once you scan your old documents in the new version, it will be really using them on other machines that have the older software. This is because, while the new software recognizes the old software (i.e., it's backward compatible), the old software can't

ward compatible with the previous version, the old software won't recognize the new software.

The Authors

Hans-Joachim Rodrikow

Q Dear Doctor! This may be a bit silly but I'd like to know why some Mac kinds seem to be taxed after sales and others aren't. They seem to print different info, too. Could you explain the difference?

Ordered Pages via an IDE

A Dear Peter: An explanation of what Mac OS X's first systems would easily take up all the space in this newspaper too. In short, there's a quick explanation.

usually, Apple's created fonts that were
-ly designed for the company's old
type printer. These fonts were
-ed to look similar to traditional
-continued on page 101

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Columns

continued from page 102

Stent closely

Many people across servers offer a dial-back option, so if you're based at a known phone number, it will automatically hang up the connection after you've been validated and call you back at that number. This is both a security feature, and a handy way for out-of-town workers to avoid long long-distance bills. Of course, if you're on the road, dial back is useless.

Once the log, one BYC complaint you should have access to all network functionality. You can connect to shared resources, use files or devices, and even print documents to network printers in the office.

As I mentioned before, you will be limited to modest speeds, so some things are impractical—unless you have a lot of time you won't try to install most software on the link, for example. A small installation (a couple of megabytes) is possible (I've done it), but you won't want to try the rest.

But all is not lost. If your company can make the investment (and it's visible in your next) IBM's **Management Services Digital Network**, a high-speed telephone dedicated to IBM clients, can make more connections between your network and possible partners than have several routers. Again, it's through IBM's special standards that the network is able to connect to the remote service servers, expensive modems that the IBM made popular in the 1980s and that are now a thing of the past. IBM's network is also, by its very nature, a place to find out about the latest in networking. If you need the fastest speed, it may be

Just the fact the record, 500,000, is not a record, is probably the most significant fact about the new system and why they rely on digital phone lines (instead of back to our homes as assigned) to achieve double speed in transmitting voice packets (3000 with 5000 service lines direct digital connection to the phone core) to pay no more than only one cent per minute for the 500,000 connections. That's okay that the call from our homes to an office address is no longer in digital but is converted from the analog to the digital at the office and the cost of the trip, and the service is a flat 1000 connections with drop to 30-60 Kbps (KiloBytes per second) speed(s); at least.

If you're on the road, or working remote, you, and need to use a fax, or need to use a document across several offices in a modern application can be worth its weight in gold.

If you're on the road, or working remotely, and need to access network resources, a remote access server, even at modem speeds, can be worth its weight in gold.

[illegible]

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**Industry
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IAN FOSTER

Unless I really have to, I've given up trying to access Microsoft's Web site. The reason is many connected computers couldn't cope up that you get a better on your more important stuff from repeatedly depressing that mouse button trying to get to the Internet you are seeking.

And the Microsoft Network, which has been the recently launched Explorer (and service, like Message) users. "I've become more accept cookies," I then adds "I have downloaded a browser that Microsoft's Internet Explorer that suggests the maximum number of this."

"Wouldn't visitors to the Web site for research think superstitious when you find they can't access the door developed popular for the same reason."

In other words, "If you don't use Explorer yet, but just the rest of doing based where

Microsoft launched Windows 95 with a built-in web browser to use for following MSN pages and something that will be implemented in the next version of the MSN-based operating system that will incorporate Internet Explorer.

Of course, Microsoft has every right to push its new products and services that offers a competitive that dominates the market in the very it does use its muscle in a way the customer companies and large numbers of consumers, that's another of your and now for the competition without you to stop it.

Card sharp
Factors to find across their head, then cards lose focus and focus in the hope of winning prizes. After that's of course, but don't mind the making doing for computer companies they receive when the same person use the cards to complete a mailing list of likely sales prospects.

But think so. As the recent Canadian, Canada in Toronto, at least one person says under their late arrival to business saying to enter people to manage when they were buying Internet Explorer, now they believe Canadian place.

Victim of Applepie?
Oscar Lewis is the latest Apple director to have that wanted computer order the re-

location left four recent years on the company's board. Lewis, the president and CEO of America's National Public Radio, Manual "printing news database" in the network.

Cyrix Nationalized
National Semiconductor will pay US\$150 million to acquire Cyrix. The big company will use the smaller company to by design a larger piece of the chip market largely occupied by Intel.

The competition—payment will be made via a stock swap—is part of National Semiconductor's drive to make chips for any supplier that could drive that include companies through to sell phones, microprocessors and WebTV. The although it is believed to have in eye field of the new independent companies. What is given to National Semiconductor Cyrix's ability to design chips for the processor Cyrix with National's sales network, will to generate to make large companies such as Compaq and Hewlett-Packard where local markets to make the most.

Throwing down the chips
Should you ever expect the profits of scale when it comes to making computer processors for the smaller chip-makers are throwing they can match the industry giant men lead?

And, possibly doing by reports that Advanced Micro Devices 686 processors to achieve superior margins the performance of their Pentium equivalents, but the prices below the Intel's 486 chips are made below 30 cents in price versus an average of 40 per cent—no means to 25 per cent cost advantage.

WHL faces desert Gosh?
The British group Gosh Gosh is well as its men find if they don't receive proposals of focus and avoid chips from their underdeveloped World Wide Web sites. The hard says it will use under intellectual property copyright laws if they don't receive.

The threat, considered in an email message sent to the Web by the group's managers across Gosh's followers of "telling them the hard they like to support." The first message saying that they are being considered they are meeting from Gosh since the house of focusing, computers.

Tango becomes Net news report
The South Pacific Island of Tonga, largely known for its pineapple exports is becoming an unexpected cash crop—Internet addresses.

In Gosh's name as member states to even daily maintenance among them. After for his advice, based in or payments for a class of Member companies and companies for an Internet operations center.

Tonga has registered more than 1,000 names with an suffix. It began Internet, will pay US\$140 each for them, more for the last two years. Among those will include accounts in London. Daily telephone, fax service and e-mail, but talking to members, prices, and include an extension for the highest bidders.

Lee Foster may hold some of the copyright material in this column. *

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Training

Training the mature worker

Continued from page 106

Something here on computer can make it difficult to decide who should be trained to do what. Should executives know the basics of word-processing programs? Or are their skills better suited to overseeing production activities? What exactly are we looking people for anyway?"

Some firms recognize that training the experienced worker is a well-deserved power-based learning about software and also understanding social and economic change.

"It seems to me that the cost of doing business has been dominated in the workers, with the result that those are desperate options

involved—both technological and human—in the workplace changes."

Mr. Smith is a business journalist who specializes in media computing and online technology. He can be reached at smith@compuserve.com.



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E-trading: The way to Net profits?

• By MARK DACEY

As more and more comprehensive sources of information and services are made available on the Internet, it is clear that what started as a experiment has become an essential for Canada's financial companies.

A mere 36 months ago, the notion of what a Web page was—access used to utility as a marketing, training, and informational tool—would have been unlikely to occur in the average fund manager, or a potential client. Today, the delivery of financial services via the Web was in January of 1993, however it has become part of a fund company's repertoire at least a solid presence in cyberspace.

This presents opportunities for both the financial stock player and the service provider alike to save time and money by buying, selling, and trading stocks and mutual funds over

the Net. The implications for potential clients of funds, brokerages, and fund companies are particularly in a period of mergers and acquisitions.

Knowledge is buying power

Information is currency in the perspective of funds, and a growing proportion of Canadians are prepared to make change online. The result is electronic trading, and the challenge for financial advisors is to use the new avenue to complement, not to compete with traditional sources of financial

advice. Trading begins with behaviour. Investors must be able to access basic information about mutual-fund products easily and without previous visits from major sales representatives.

A good place to start is the Canadian Mutual Fund Portfolio Page located by Toronto-based PortfolioAnalystics Ltd. This site allows visitors to search funds by

name, type, and management company. Each entry includes such handy information as the fund's performance, expense ratio, its minimum investment, total assets, and perhaps most importantly, a capsule review of that specific fund's

invest objectives.

All information sites for information is the very popular Fund Library which, besides being very well designed, comprehensive, and frequently updated, issues commentary material directly.

—CALVIN K. ST. JAMES

TSE Gearing up for the future

The target date for the Toronto Stock Exchange's new trading complex is now late this year or early 1996.

The exchange says its new computer system will tie it competitively into the rest of the nation and is capable of further expansion.

In 1994, the TSE was one of the world's first exchanges to begin selling shares electronically. Among those to which it adds is the newly developed Computer Assisted Trading System—CATS—

was the first issue.

Now the technology, after further development by the French, is coming online, with \$50 million in the modified Paris software for the TSE. The exchange will not reveal how much it is spending on the new system.

But before the software becomes operational, it will go through rigorous testing and what the exchange describes as "an acceptance period" in a quasi-real trading environment.

The TSE expects the tests to go smoothly as Paris has been able to handle 150,000 trades a day consistently in the 37,000 accounts recorded on the TSE. In July, the number of shares traded each day on the TSE was 98.5 million, up from 87.4 million a year earlier.

The TSE closed in 1991 to go fully electronic. Its first attempt proved expensive, expensive, and too time-consuming. In April 1992, it opted for its present plan to buy technology rather than develop its own.

Today, Toronto stockbrokers use Pentium-based PC workstations running on Windows NT or UNIX. Their first encounter with electronic trading, however, was in 1984, when the TSE installed a \$1 million system to carry stock data.

The traditional, noisy trading floor, in action since the exchange opened in 1862, closed on April 25 of this year.

—JIM LUTHER

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COSMOPOLITAN VIRTUAL MAKEOVER

•• By JUNE CAMPBELL ••

Thanks to the CD-ROM being developed by Motion World of Vancouver, the Inquadrill and Susan Maguire, women will soon be able to customize their Cosmopolitan makeover site to have makeup before trying out the look in real life. With the click of a mouse, customers will be able to size themselves in a variety of new looks, using a digital personal photograph or one of the images available in the "library of look."

Consumers can either get their photos developed onto disk or CD-ROM through their local film developer or by using a scanner or by using a camera or a digital camera. A complimentary offer for a free 30-day Image Magic Photo Disk will be included inside the product box.

As used to wonder what you'd look like in Cosmo Girl's featured Alterna Cosmetics Colour for Tomorrow lipstick? Try it on "virtually" first on the other state-of-the-art cosmetic check out a new hair style or even a new hair colour before you make

the decision in real life. Cosmopolitan's Virtual Makeup program is "intuitive for the expert, knowledgeable, professional and potential customers of getting a real makeover."

Feeling hearts, hearts, hearts

An accompanying Web site allows the users to upload the CD-ROM to the Internet. Once the look is made change almost as quickly as computer software product users will be able to download the latest hairstyle, makeup colours, clothing signs, and product releases every

developed by Susan Baker of Invision development. These digital makeup products and Web site, progression of all of Motion World's subsequent projects and accompanying drive are presented to Inquadrill and Susan Maguire who ultimately signed in the project.

Motion World's scheduled to be released that fall has users on eight-person team over a year to produce. Development with Motion World high-end custom graphics engine and Adobe Photoshop, the CD-ROM will be available for use on the Mac Windows 95 and Windows 3.1 platforms.

According to Inquadrill the development of Cosmopolitan Virtual Makeup presented them typical challenges. First, Cosmopolitan is a print publication with digital with Internet publishing to digital media. Secondly, Motion World presented an opportunity in developing virtual makeup sites—providing the state-of-the-art users with a learning experience. Since there is no market research was available regarding women's personal interest in the type of project, focus groups were used for market testing.

"We wanted to design a product with an interactive interface that would appeal to adult women without being overwhelming," says Inquadrill.

Motion World is a Vancouver-based public company that is 50 per cent owned by Inquadrill. Susan Maguire Inquadrill developed interactive software for PCs and the Internet and is situated in Redwood City, California. Susan Maguire publishes Cosmopolitan. ♦



State-of-the-art

The original concept for Virtual Makeup

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New Web-image format now available

•• By PAUL ANGULO ••

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with Adobe Photoshop for instance (the new version 4.0 has built-in PHG support).

Easy to dream

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